



COLORADO SPRINGS,
COLORADO

SPECIAL EDITION APRIL/MAY 1990

PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.
P.O. Box 16521
Colorado Springs, CO 80935



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Ø BEAT



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The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at 7:00 p.m. All amateurs and interested parties are invited to attend.

EDITOR: Ron Deutsch NKØP 4305 Ridgeline Drive Colorado Springs, Co. 80918 (719) 593-8352 or 145.01 (Packet)

Message From the President...

The 1990 version of the Pikes Peak Radio Amateur Association swapfest is fast approaching. Not too long ago, May 19th seemed like it was a long way off. But here we are, preparing a combined April/May edition of the newsletter and making last minute plans for the swapfest. First off, I would like to say hello to the 900 or so hams in El Paso and Teller counties who found a copy of this newsletter in their mailbox this month. When we ordered mailing labels, we found that there are almost 1100 amateur radio operators in the Pikes Peak region. Some would say that having over 200 of them as members of the club is doing pretty good. I think we can do a lot better and hope that you will see something of interest in this newsletter that will make you want to join up and be a part of the Pikes Peak Radio Amateur Association.

This summer we have a large number of public service events we are committed to and, in all honesty, we could use some more help. But I am also interested in the infusion of new blood with new ideas that an increase in membership would bring. In any case, hope to see you at our next club meeting.

On to bigger and better things. As I mentioned earlier, the 1990 swapfest is on May 19th. For those of you who haven't heard, the folks at ICOM in Bellevue, Washington have decided to bring their product line here and put it on display. Last week I received the first shipment of equipment with the rest due right after Dayton. In all they plan to bring about 2000 pounds of radios, as well as hats and goodie bags. They have reserved forty feet of table space and should have a terrific display.

Ehrhorn Technological Operations (ETO) will also be on hand with their line of linear amplifiers. CW Electronics will be setting up shop near the center of the mall, and Miley's Radio will be in the usual spot on the west end. Ron Deutsch, NKØP, is handling table rentals this year and can be reached at 593-8352.

It should be a great swapfest, so gather up your "stuff", reserve a table, and come on down to the Rustic Hills Mall. Even if you don't have anything to sell, stop by anyway. You might come across a hard to find widget that is just what you need to finish a project or improve your station. We take no responsibility, however, if you go wild, buy up a lot of "stuff" and get served with an eviction notice or other legal document when you bring it all home.

For those who enjoy the public service aspects of amateur radio, our club is right in the thick of things. On April 21, we are working the "Walk For Mankind", followed on May 20 by the "Walk America". In June and July we are committed to work the Bobby Donner Memorial Auto Hill Climb in Teller County (June 2-3), the Colorado State Games (July 27-29), and the Pikes Peak Auto Hill Climb (July 29). In terms of sheer numbers, the latter two events will take over 100 hams on the same weekend. Mike Stansberry, KØTER, has been doing a great job coordinating all of these events and club members have been giving much great support that the list of requests for our help is getting longer and longer. If you like public service (one of the things amateur radio is all about) or if you just like getting in free to some of the biggest events in Colorado Springs, we need your help.

continued on page 11

Decibels and S Units

Bob Witz, KB0CY

What do we mean when we say a signal is S3? or S9? or 20 dB over S9?

Let's first talk about this business of decibels (dB), which is a logarithmic way of comparing two signal levels. In terms of voltage, the dB can be expressed mathematically as:

$$\text{dB} = 20 \log (V2/V1)$$

Where log indicates the base 10 logarithm V2 and V1 are two voltages.

If the two voltages are equal, the decibel value is 0 dB. A factor of 2 in voltage change corresponds to 6 dB and a factor of 10 in voltage is 20 dB.

The S-unit is commonly taken to correspond to 6 dB, which again, is a factor of 2 in voltage. So if the S meter reading changes by one S unit, the voltage at the antenna connector changes by a factor of 2. Above S9, most S meters start reading in dB, with +20 dB, +40 dB, etc. marked on the meter. Although there is no real standard that I know of, S9 is often defined to be a signal level of 50 microvolts. Thus, a signal which reads 20 dB over S9 would be 10 times 50 microvolts, or 500 microvolts. 40 dB over S9 would be another 10 times larger, or 5 millivolts.

A logarithmic scale is used because the signal levels at the input to a receiver vary by such a large amount. A simple linear scale would not be able to show the wide variation in signal strength. For example, an S1 signal is about 200 nanovolts which is 25,000 times smaller than 40 dB over S9.

S-meter readings certainly vary with each transceiver model and one shouldn't expect the readings to have instrumentation accuracy. I checked the S meter on my Kenwood TS-430S and was surprised that it behaved pretty much according to the 6 dB per S unit rule and S9 was very close to 50 microvolts. I also noticed that the meter reads several dB lower with the CW filter than with the SSB filter.

(The CW filter must have a few more dB of loss than the SSB filter.)

SATELLITE ELEMENT SETS

As promised here are up to date element sets for amateur satellites, and MIR.

NAME: MIR, ID: 16609, EPOCH: 90104.74000563, INCL: 51.6168, RAAN: 290.0940, ECCE: .0013350, ARGP: 29.6336, MEAN: 330.5494, M MOT: 15.62248727, DRAG: .00043408, ORBIT: 238191.

NAME: OSCAR 13, ID: 19216, EPOCH: 90101.50551141, INCL: 57.0142, RAAN: 160.3003, ECCE: .6928655, ARGP: 224.8803, MEAN: 52.1526, M MOT: 2.09695755, DRAG: .000099999, ORBIT: 14005.

NAME: OSCAR 14, ID: 20437, EPOCH: 90105.70205264, INCL: 98.6989, RAAN: 181.9869, ECCE: .0011158, ARGP: 342.1703, MEAN: 17.9073, M MOT: 14.28557553, DRAG: .00038414, ORBIT: 11942.

NAME: OSCAR 15, ID: 20438, EPOCH: 90106.27553801, INCL: 98.7029, RAAN: 182.5525, ECCE: .0010888, ARGP: 338.6455, MEAN: 21.4279, M MOT: 14.28324167, DRAG: .00015302, ORBIT: 12029.

NAME: OSCAR 16, ID: 20439, EPOCH: 90106.25675387, INCL: 98.7098, RAAN: 182.6003, ECCE: .0011868, ARGP: 341.9770, MEAN: 18.0987, M MOT: 14.28661601, DRAG: .00024179, ORBIT: 12029.

NAME: OSCAR 17, ID: 20440, EPOCH: 90106.25469996, INCL: 98.7023, RAAN: 182.5971, ECCE: .0011782, ARGP: 341.3460, MEAN: 18.7289, M MOT: 14.28701578, DRAG: .00027584, ORBIT: 12027.

NAME: OSCAR 18, ID: 20441, EPOCH: 90106.24817200, INCL: 98.7045, RAAN: 182.6031, ECCE: .0012471, ARGP: 341.6135, MEAN: 18.4614, M MOT: 14.28806082, DRAG: .00021995, ORBIT: 12023.

NAME: OSCAR 19, ID: 20442, EPOCH: 90106.24416977, INCL: 98.7065, RAAN: 182.6084, ECCE: .0012802, ARGP: 341.5621, MEAN: 18.5108, M MOT: 14.28874617, DRAG: .00024367, ORBIT: 12029.

73's...Rick, WB7THT

ACADEMY RADIO CLUB

The Academy Radio Club meets on the 2nd Tuesday of each month at the Golf Course Tee House at 11:30. All interested amateurs are welcome to attend. Come out and have lunch with us and enjoy the terrific scenery of the Air Force Academy.

For more information contact Ron NK0P at 593-8352.

"THE VIEW FROM THE PEAK"

by George Hinds, N8CIX

BUYING A NEW RIG? SOME THINGS TO THINK ABOUT...

It's over a year since my consumer-rights battle ended. Many of you remember. In brief, I bought a name-brand dual-band rig mail order from a reliable dealer. I based my decision to purchase on advertising claims by the manufacturer. To my chagrin, I soon learned the ad claimed what the transceiver could not produce: a front-panel display "that provides best visibility in direct sunlight..." I wrote repeatedly to the manufacturer, the dealer, the ARRL, the BBB, etc. After months without satisfaction, I sent my complaint to the state consumer advocate office in California. They referred it to the District Attorney in Los Angeles. I sent him my complete file and written position. Within days, the manufacturer called to say they would buy back the transceiver. I accepted. The check was a refund in full.

To me, it was a long wait filled with anger and disgust at the fix I found myself in for accepting an advertising claim "sight unseen". Hoping that what I learned will be of value should you encounter a consumer problem, here are some points to keep in mind.

Don't rush to be the "first kid on the block" to buy a new model. Talk to owners of the rig you're considering. Get their opinions. Check it out against advertising claims. Remember, it's natural for some to hesitate admitting they bought a lemon. Push for honest opinions. It's your money; be careful and deliberate in your purchase. If it sounds too good to be true, it probably is.

Read the fine print in the ads. Save ad copy and file it. If the dealer or manufacturer is one you've not dealt with before, check them out. Have their ads appeared for several issues in a magazine? Do they take major credit cards? That tends to confirm they pay their advertising bills and the credit card companies believe they're O.K. Usually an 800 phone number indicates they pay their phone bills, too. It never hurts to check with the Better Business Bureau in their town. Keep notes for reference.

Is the price too good to be true? It probably is. We all look for the best price, but remember the dealer has to make a reasonable profit.

Let's assume you order a rig that is not as advertised or unsatisfactory. Did you miss seeing in fine print, "all sales are final?" Too bad, chum; it could be a long fight. Steer clear of such sales. Avoid outfits that charge a "restocking fee" if you return the rig,

obviously they're charging you for refusing unsatisfactory merchandise. Go somewhere else.

It's a more secure feeling to deal only with companies that accept major credit cards. If they don't, maybe the credit card companies know something you don't. Ask if a dealer charges extra for credit card purchases. If so, you may save that fee by going elsewhere. Invariably, a credit card purchase gives you extra leverage in these disputes against unsatisfactory gear, or false or misleading advertising, than does buying by cash or check.

To sum it up: Complain in writing; be specific. Allow time for a reply; if unanswered, fire off another complaint, certified mail this time, with a copy of your first letter. If the blame lies with the manufacturer, direct your complaint to him. No luck? File a complaint with the BBB, the magazine or newspaper running the advertisement, the Federal Trade Commission Enforcement Division, and if delivery was by U.S. Mail, complain to the Postal Service. Most states have consumer fraud divisions; get them in on it. This is when a copy machine is handy; build your case with copies to others who might help in any way.

Don't rely on telephone conversations. "I said" and "he said" won't do it; get it all in writing. If you do get a telephone response, fire off a letter confirming what was said or agreed upon promptly. Build a file on the dispute. Don't give up without a fight. Perseverance can pay off. Even if you don't win, publicize the dispute with the facts (on nets, at meetings, in newsletters, at ham dealers, etc.) and you may save your ham buddies from being taken to the cleaners, too.

This is not all that could be written on this problem, of course, but I hope it gives you a foundation to build your complaint on if you should be so unfortunate as to have such a problem.

73, George N8CIX

TRANSMITTER HUNTS

The PPRAA holds monthly 2 meter transmitter hunts. They are scheduled on a Saturday following the monthly meeting (the second Wednesday of the month) so as to not interfere with other Ham events. Hunts usually start from the Colorado Springs East Library (on Union, north of Academy) at 12:00 noon. Everyone is welcome to participate.

Contact BHL, WR0Y at (719) 598-6776 or on the 146.97 repeater for more information.

1934 Official

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edited by Hugo Gernsback

Build simple, high performance old time shortwave radios!! You can—all of the secrets are here: the circuit diagrams, parts layout, coil specifications, construction details, operation hints and much more. A classic for experimenters, shortwave listeners, ham radio operators, old time radio collectors and just about anyone interested in old-time radios. Even if you never get to build one of these radios, you're sure to get hours of enjoyable reading out of this book. 8 1/2 x 11 Paperback, 260 pages. ISBN 0-917914-64-3



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CONGRATULATIONS!!

Congratulations to the following hams who upgraded recently:

KB0DPK, Dennis Caton
N0LLE, Don Chamberlain
KB0FTK Bryan Curl
KB0EPN Fredrick Dodd
KB0FUS Lydia Kile
KB0CPC David Kline
KB0FZB Robert Koozer
KB0EPM Arvy Kysely
KB0FEL Bruce Leply
N6QDA Kevin Simmons
N0LDL Rupert Welch, Jr.

The following should have their new calls soon!

Michael Guyote
Peter Mayer
Claton Muise
Ben Polue
Robert Raymond
David Steele

SOUTHERN COLORADO TRAFFIC NET

Current net control stations for the SCTN, which meets daily at 2000 hours on the 146.97 repeater:

Monday--N0KIC John
Tuesday--KA0YXB Pauline
Wednesday--WB0BLV Lee
Thursday--KA0WIE Fred
Friday--N0LGV Ed
Saturday--KA0YPX Frank
Sunday--KA0JEA Carl

Back-up NCS: N0CYR, Jake and
KC4KGS, Mat

Net manager is N4TGO, Doug.

MILITARY AMATEUR X-BAND

On 192300Z to 200245Z you can earn a certificate by receiving a message via MARS to amateur crossband operation. For more information contact any MARS affiliate member.

submitted by KA0WIE via KA0WIE BBS

69th CCARC MEETING

Oak, K0ROL attended the 69th meeting of the Colorado Council of Amateur Radio Clubs (CCARC) in Denver 24 March 1990 as your delegate. About 15 Colorado Ham clubs were represented. Whit Brown, WB0CJX, presided the meeting as chairman. Whit is also the Colorado Frequency Coordinator for all Ham VHF/UHF frequencies, and the Colorado delegate to "MACC", the Mid-America Coordinating Council, which includes groups in Colorado, Illinois, Wisconsin, South Dakota, Nebraska, Kansas, Arkansas, and Michigan. CCARC pays dues of \$50/yr to MACC. AARL Rocky Mountain Regional Director, Marshall Quait, AG0X, also attended the meeting. Quait discussed recent developments concerning ARRL and FCC issues.

The revival of the Colorado Ham Directory was discussed at length. This directory, in the past, included some 7,800 hams in Colorado listed by call sign, name, zip code and telephone number. Due to inflation of printing costs, data acquisition, etc, a new issue may have a price tag of \$5, or so, but the consensus seemed to favor the publication, especially if advertising could defray expense, somewhat. A study committee was formed.

In addition to frequency coordination, the CCARC functions as a source of information and dates on regional swapfests, public service functions, and legal assistance. Each member club needs to designate the recipient of the newsletter. Your delegate recommended that the delegate be that recipient, so that the information not be lost to the membership of the association. The newsletter may be subscribed to by anyone for \$5/yr.

It was decided to "elect" the state Frequency Coordinator, rather than the position being "appointed". Whit Brown holds both the positions of Chairman of CCARC and that of State Frequency Coordinator. The Chairman is an elected position, while the SFC was previously an appointed position.

Several member clubs are delinquent in their dues for 1990. PPRAA is on that delinquent list. The assessment for any year is minimum \$5 or a rate of \$0.20 per member, up to a maximum of \$25 per club. We are charter members of CCARC, and I recommend we pay our dues.

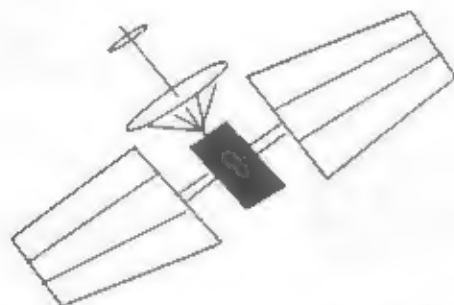
A two page Coordinated Repeater Listing, by location and by frequency is available for copying. It now contains 290 entries throughout the State of Colorado! (we have really grown) See Rosie or Oak for the original. It is dated 24 March 1990.

Oak, K0ROL

PPRAA SWAPFEST

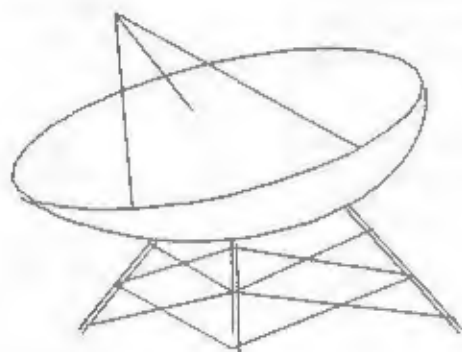
MAY 19, 1990 8AM TO 5PM

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FOR TABLES CALL RON, NK0P 593-8352

DITS AND BITS

FOR SALE: Heath 1680 & 1681 HF, 80-10mtr CW rig. Tx and Power supply good; Rx so-so. Includes Power meter and manuals. \$141.00. Mark, N0EPF, 596-6916 or Callbook address.

FOR SALE: Two ICOM IC 3200 Dual Band Mobile Transvers. 2mtr/440. Call for price. Rony, KE0OW Even, 719-635-4009.

WANTED: Pair of 572B's or TL160 tubes for Heath Amp. Also pair 3-500Z's used or new at a reasonable price. George WB0DUM, 495-3983.

FOR SALE: Rohn 25-G tower, approx. 43 ft. Includes house bracket and rotor mounting plate. Excellent condition. Mosley TA-33 Sr. Tri-Band Beam (10-15-20). Was new 2 years ago. Only in use for 1.5 years. Mint condx. Cushcraft Z2 ele. 2 mtr beam. Mint condx. Dick, WB0DUL, 719-576-0232.

FOR SALE: National NC-300 All band Rx \$50.00. 1988 Callbooks NA & DX plus 1989 Suppa \$10.00 for all. WD0K, 635-8758.

FOR SALE: Kenwood TS-830S 80-10 mtr. Transceiver w/VFO-120 & MC-50 Desk Mic. Yeasu FT-726R all mode UHF Transceiver. Heath HW-100 80-10 mtr. Transceiver w/HP-23A pwr supply. KLM 2M-14C circ. polarized Oscar ant. Butternut HF4B Butterfly compact 10-15-20 mtr. ant. E. J. Lund, KD0NB, 495-9007.

FOR SALE: TI-99/4A computer, cartridges, cables, peripheral box, RS-232, 32K, Disk controller, and tandem disk drive. \$100.00 or trade for 2 mtr. beam or crystal VHF/UHF transceiver. Doug, N4TGO, 495-4908.

FOR SALE: Okimate 20 Printer with Commodore interface, \$75.00; Gladding 25, 2 mtr transceiver with many xials and manual, \$35.00. Kirby (Casey) Stafford, WA0TBJ 596-3522

FOR SALE: Commodore 128 setup. w/RGB monitor, 2-1571 disc drives, 1200 Baud modem, manuals, software, CPM users guide. \$500.00 Al, N0CMW 473-1660.

FOR SALE: Tokyo Hi-Power 2mtr amp. 10 watts in for 160 out w/ Gasfet pre-amp, \$150.00. Tokyo Hi-Power 432-450 amp 10 watts in for 100 out w/ Gasfet Pre-amp, \$175.00. Henry 3K HF linear amp, 1500+ out 2-30 MHz. Commercial version rated at 3000 watts input continuous duty, like new. Offer? Trade? Heath wireless intercoms (3) \$15 ea. ICOM 451A 432 Mhz transceiver w/internal power supply. \$375. B&K 970 Transistor Equipment Analyzer \$75. Ron, NK0P 593-8352

TELLER COUNTY HILL CLIMB

The Teller Co. Hill Climb will be held on 2-3 June 1990. Our assistance was greatly appreciated last year, and we have been asked to help again this year. There will probably only be the one race this year, so if you enjoy this kind of activity, this is it. If you would like to help, all you need is a good 2mtr FM rig and a day or two to spare.

Contact Mike, W9MHL, 481-3401 (Days) or 488-2440 even. (till midnite)

PIKES PEAK HILL CLIMB

The Pikes Peak Hill Climb will be held on 29 July 1990 this year. Tom Frazier, head of race communications has asked for our help again this year. If you would like to assist, have some fun, and watch a good race contact:

Mike, W9MHL, 481-3401 (days) or 488-2440 (even) till midnite.

PPRAA CLUB MEETINGS

The Pikes Peak Radio Amateur Association meets monthly on the 2nd Wednesday, 7:00 pm, at the Elks Club on North Nevada. Club features a short business meeting followed by a raffle, time to get acquainted, and an interesting presentation on a Ham Radio related topic. Meeting usually adjourns around 9:00 pm. Everyone is welcome to attend. Need more information? Contact any of the club officers or board members listed on page one of this newsletter.

PPRAA DUES TO INCREASE

PPRAA annual dues will increase on May 20, 1990. Increased cost for newsletter and requests for public service, field day, other demands on the treasury were cited as causal factors. *Renew now and beat the increase.*

The following are the new rates:

Full member: \$15.00
Family Membership: \$18.00
Over 65 \$12.00
Newsletter only: \$10.00
Associate member: \$10.00
Family both over 65: \$12.00

UPDATE:

Proposed El Paso County Tower Ordinance

On February 21, 1989 about 80 amateurs from throughout the county met with the County Planning Commission for a hearing on a proposed tower ordinance. At the end of the hearing the proposed ordinance was approved by the planning commission, and awaits action by the Board of County Commissioners to make it law. However, since the February 1989 meeting the proposed ordinance has sat in limbo in the county land use department and has not been forwarded to the county commission. We are not certain of the reasons for the delay.

At this point, it appears that action on the proposed ordinance is dead. We have no indication regarding when or if it will be filed away and forgotten in the files of the land use department. However, we all need to be vigilant and watch the legal notices in the newspaper in case the proposed ordinance is revived and sent to the county commission without our being notified. The fight is not over.

The tower committee appreciates all of the time, money, and effort that amateurs in the county have put forth to defend their tower interests. I have received information that some county commissioners have heard from some of you already concerning your views on the tower ordinance. I urge you to continue making these political contacts. This is probably the best way to get what you want, and may have contributed to getting the land use department to set the proposed ordinance aside, at least for now.

The tower committee will try to keep you informed on the state of affairs regarding the ordinance. If it should be revived and sent to the county commission, we will alert you via the pages of O-Beat and in announcements on the 146.97 repeater.

Hal WOMXY, Lauren KX00, Warren WOYNE, Malcolm KE9S, Pete N0LA.

MARC ANNUAL

CAMPOUT/SWAPFEST

The Mountain Amateur Radio Club will hold its annual Swapfest July 21-22, 1990. The event will be held at the Red Rocks Campground, North of Woodland Park, Colorado.

Contact Joe, N0CMD for details. 687-3641

VIEW TO THE EAST

W1JU

It was just four years ago that I arrived in Colorado Springs. As time went by, I was sure I would not have to move again, and would be able to retire here, but, as fate would have it, another assignment was in my future, and I now find myself bound for Washington, DC. With thoughts of UHF (Ultra Humidity Factors), H F (High Finances) and A M (Amassed Motorists), I look unfondly to my upcoming move.

One thing, however, sheds a bit of bright light on this bleak situation. I have been getting copies of "AUTO CALL" magazine, put out by the "FOUNDATION FOR AMATEUR RADIO". It services Hams in the greater Washington, D.C. area. I find the Amateur activities in the area abound. For example:

There are a mere 55 radio Clubs in the area.

There are two to three Hamfests per month.

From time to time I'll report back on the activities out East as well as other information you might find interesting. If you are in the area give me a call (Pentagon Ext 4-5651).

73 Harvey - W1JU

APRIL PPRAA BOARD MEETING

The April PPRAA Board of Directors Meeting was held on April 16, 1990 at the QTH of Ron, NK0P.

The following members were in attendance:

Dave, N0ION

Rossie, WA0MNL

Rick, WB7THT

Russ, KB0FNM

Al, N0CMW

Floyd, KB5FCN

Faylene, KB5FCM

Ron, NK0P

Program for May club meeting is yet to be finalized.

Swapfest coming along fine. We will need help on Friday before swapfest to set up and Saturday after to help tear down. Board authorized Ron, NK0P \$100.00 for purchase of hourly prizes at the Dayton Hamfest.

Proposal to ask club members to bring a can of food to the Swapfest and club meetings for the local Care & Share food pantry was passed.

\$75.00 was authorized for field day site and picnic site.

Remainder of meeting spent with O-Beat and preparations for the mass mailing.

Al, N0CMW, PPRAA Secretary

MEETING APRIL 11, 1990

Elks Club, North Nevada

Meeting convened at 1900 local by president Rick, WB7THT. Minutes were read by secretary, and approved after a couple of corrections on dates.

Treasurer report:
Previous \$1636.15
Income \$443.00
Expenses \$146.24
Balance \$1932.91

COMMITTEE REPORTS:

RFI JEFF N0JLH 591-6438 Nothing new.

EDUCATION BUD N0DDF 475-0537 Every thing going fine at classes.

D&B SCHOOL BUD N0AA 689-2963 Have 7 students Lydia KB0EBL helping.

ARES & PUBLIC SERVICE MIKE K0TER 636-1290 Thanked those who helped on superwalk. Also those who helped on Health fair.

CCARC OAK K0ROL 570-7782 Rosie filled in for Oak; 20 clubs participated in last meeting and our dues are paid up.

V.E. TESTING MAX KD0EL 488-9289 Need more help. Need at least 6 VE's at every session, more would be better. Please get your name and phone number to him, advance VE can help.

0-BEAT RON NK0P 593-8352 Need all information in by 15th of April.

SWAP FEST RICK WB7THT 599 7665 ICOM shipped some gear already and will ship in more after Dayton.

OLD BUSINESS

Rick: Please no talking among yourselves while guests are putting on a program. Show respect.

By vote of club previous the meetings were put off limits for smoking, so refrain from it.

Club radio not going to weather service as Mike K0TER has donated and older radio which he has gone thru and cleaned up.

Dave N0ION brought staff gauges as promised.

NEW BUSINESS:

Fred reported the Gunnison node for packet down.

Tri city breakfast in Pueblo April 14th.

Mike K0TER reported on various public service events coming up.

Pikes Peak Hill climb July 29.

Colorado State games July 27, 28, 29.

Club voted to cover the Hill climb this year, they promised more cooperation with us. Mike W9MHL (488-2440) volunteered to head it up. He needs a lot of help, about 90 hams.

It was brought to the club membership the dues increase recommended by the board, after a lengthy discussion it was brought to a vote and passed by a majority.

FULL MEMBER \$15.00.

FAMILY MEMBERSHIP \$18.00.

AGE 65 OR UNDER 18 \$10.00.

NEW CATEGORY FAMILY MEMBERSHIP BOTH OVER 65 \$12.00

NEWS LETTER ONLY \$8.00

ASSOCIATE MEMBER \$10.00 (outside Teller and El Paso Counties) difference between associate membership and news letter is that you are a non voting member and name goes on club roster. As newsletter you are not on roster. If anyone has a complaint on expiration on your membership contact one of board members who will get it ironed out.

YOU CAN EXTEND YOUR MEMBERSHIP AT OLD RATE FOR AS LONG AS YOU WANT TO BY DOING SO FROM NOW TO EXPIRATION OF SWAPFEST MAY 19, 1990. SEE ROSIE.

INTERMISSION:

Raffle winners:

KA0WIE 1985 International Call Book

KD0NB screwdriver set

KB0FNM Meal at Village Inn

NK0P grab box from OEM

N8CIX surge protector

N0IZQ wire cutters

Program was talk on public service events and need for help.

April 21 Walk For Mankind.

May 20 March of Dimes.

Volkswalk Fox Run Park May 26.

July 7&8 Multiple Sclerosis bikeathon.

July 27, 28, 29 Col. state Games.

July 29 Pikes Peak Hill Climb.

Aug 18 (tentative) Bikathon.

Any one who can help contact Mike 636-1290.

Mike passed out assignments for the Walk For Mankind.

Max KD0EL gave talk on field day June 23&24. Contact him if You want to participate.

Tom AD00 Gave a nice talk on DX CONVENTION AT VARSALLES.

Meeting adjourned at 21:30.

submitted by AL N0CMW SEC PPRAA.

more FOR SALE ITEMS....

FOR SALE: Gemini II printer NLQ. Mint w/box and manuals. \$200.00 Commodore 1541 Disk Drive. Mint w/box and manuals. Floyd, KB5FTN 472-1959

FOR SALE: Old microphones--broadcast and ham. Tubes and tester. WA0MNL--KB0FNM Rosie and Russ 471-9965.

On the lighter side, every Saturday morning, a few of us get together at the Village Inn at Palmer Park and Academy around 0630 in the morning. Sharon Harper, manager of the Village Inn, has been a terrific supporter of our club. In addition to having tables set aside every Saturday, she has donated two free meals "anytime" at her restaurant, every month for the last 18 months or so. These have been used as door prizes at the monthly club meetings. Elsewhere in this issue, you'll find a coupon worth 10% off all menu items at her restaurant for the day of our swapfest. It's just her way of saying thanks to the ham community.

Last but not least, there are surely some out there thinking, "Why should I come to a club meeting?" There is a certain amount of club business that must be done at every meeting, but we try to keep it at a minimum. Emphasis is being placed on getting good guest speakers with interesting topics. Gen. Royer has been out twice, once to talk about Electro-Magnetic Pulse (EMP) effects on communications and equipment and also to tell us about Over the Horizon Backscatter (OTH-B) radar, the American equivalent of the infamous "woodpecker" on the HF bands. Mike Weiderhold came down from Cheyenne Mountain to tell us about orbital elements and how to predict satellite positions. Bdale Garbee brought in his "10KBits on 10GHz" experiment and gave a very interesting presentation (you might have read about it in 73 magazine, he made the cover).

I could go on but the word processor is telling me I've used up my quota of space. If you've never been or haven't been in a while, come to our next club meeting on 9 May and give us a try. In any event don't miss the swapfest on May 19th.

73's...Rick, WB7THT

"0" QSL BUREAU CHANGE

[Pulled off of WOLKD BBS by KB0CY]

To: ALL @ ALLUS Subject: "0" QSL Bureau moving

Attention all hams in the Zero call area and those that have "0" call! On May 15, 1990, the Zero Area QSL Bureau will move to Overland Park, Kansas. The new address will be: P.O. Box 4798 Overland Park, KS 66204-0798

The new Bureau manager will be Rick, KB0U.

Many thanks to Charlie W0QQN, and his staff of sorters for their outstanding job over the years. Please allow sufficient time for the new Bureau to get into operation.

Please advise your club members and avid DXers of this information.

73 de Bill, KB0XQ @ K0BOY BBS.

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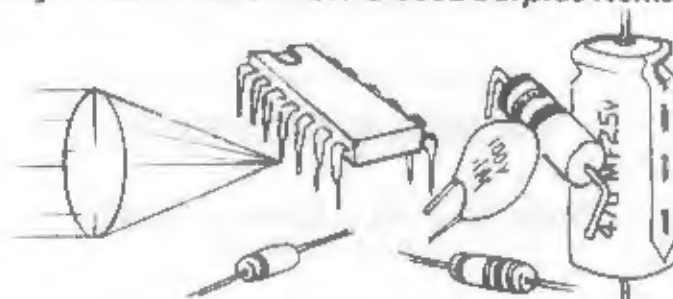
SAT. 10:00 - 2:00

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610 E. Fillmore St.
Colorado Springs, CO 80907
(719) 473-2828



Village Inn

Village Inn Pancake House

TO THE PPRAA:

THANKS FOR YOUR PATRONAGE!

GOOD LUCK WITH YOUR SWAPFEST!

VALUABLE COUPON!!!

**10% OFF ALL MENU ITEMS
(WITH COUPON)**

Good only on May 19th, 1990 at Palmer Park and Academy Village Inn.

Sharon Harper, Manager

Village Inn, 3902 East Palmer Park
Colorado Springs, CO. 80909 719-574-1935

SATURDAY MORNING BREAKFAST

Local area amateurs get together each Saturday morning at 7:00 am for fellowship and breakfast at the Village Inn on Palmer Park and Academy Blvd. No club membership or affiliation is required.

Come join us for an "eyeball QSO" on May 19th just before the PPRAA Swapfest and save 10% on your breakfast. (see coupon this page)

Some local area hams get together on Wednesdays at 6:15 am at the Mountain View restaurant on the corner of Galley and Powers. Join us before going to work!

Need more information? Contact any of the club officers or board members listed inside front cover of this newsletter.

BRING A FOOD DONATION TO THE SWAPFEST FOR THE LOCAL CARE & SHARE PANTRY

Membership Application PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.

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Additional Names _____ Call _____ Class _____

Associate Member \$8.00



(Outside Teller & El Paso Counties.)

PPRAA is not associated with the Pikes Peak FM Association.